AO Insertable Module MSR 241



Galvanic isolation

This analog module is used to output voltages in the range of ±10 V. The module has 2 channels, each with a short-circuit proof reference voltage of -10 ... +10 V. In addition, each channel has a 24 V supply voltage.

On the diagnostic connector, the output signals can be measured.

500 V DC

Analog Channel Specifications		
Number of channels	2	
Measurement range [Volt]	±10 V DC	
Measurement range [Digit]	-100.000 +100.000 in 0.1 mV increments	
Resolution [bits]	16	
Resolution [Volt]	333.3 μV/LSB	
Output voltage capacity	maximum 10 mA	
Capacitive load of the output voltage	< 100 nF yes typically 150 µs (with a load of 10 kW 100 nF)	
Short-circuit proof		
Settling time -10 V +10 V		
Ambient temperature Analog channel accuracy of final value	0 +40 °C typically ±0.008 %	0 +60 °C typically ±0.023 %
Status display	ERROR (red) (located on the base)	

Settling Time				
Settini	Hardware settling time -10 +10 V/+1010 V	typically 150 μs (with a load of 10 kW 100 nF)		
Analog	Channel Accuracy			
	Integral non-linearity error	typically ±0.003 %	maximum ±0.005 %	
	Temperature drift 0 +40 °C 0 +60 °C	typically ±0.005 % typically ±0.02 %	maximum ±0.02 % maximum ±0.04 %	
	Cross talk between both channels	typically 0	maximum ±0.0015 %	
	total error 0 +40 °C 0 +60 °C	typically ±0.008 % typically ±0.023 %	maximum ±0.0265 % maximum ±0.0465 %	
	Additional error under load 0 1 mA	typically ±0.001 %		
	Additional error under load 0 10 mA	typically ±0.015 %		
	Long-term drift 1000 h	typically ±0.0065 %		
Cumplu	Voltage 0 +60 °C	I		
Supply	Output voltage	+23.343 V 24.330 V 25.127 V		
	Output voitage Output current/channel	+23.343 V 24.330 V 25.127 V maximum 100 mA maximum 800 mA		
	Total current/base module			
	Galvanic isolation	500 V DC		
Diagno	stic Connector			
	Voltage range	±10 V 10 mA yes		
	Load capacity			
	Short-circuit proof			
Article	Number and Miscellaneous			
	Article number	18-001-241		
	Hardware version	1.x		
Enviror	ımental Conditions	I		
	Storage temperature	-30 +85 °C		
	Operating temperature	0 +60 °C		
	Humidity	0-95 %, non-condensing in accordance with EN 61000-6-2:2001 (industrial area)		
	EMC stability			
	Shock resistance	EN 60068-2-27	150 m/s²	

EN 60529

Protection type

IP00